

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 91 - 148

WASTE DISCHARGE REQUIREMENTS FOR:

RMS VINEYARDS,
dba CARNEROS ALAMBIC DISTILLERY,
CUTTINGS WHARF ROAD, NAPA COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region (hereinafter called the Board), finds that:

1. RMS Vineyards, doing business as Carneros Alambic Distillery (hereinafter also called the Discharger), owns and operates a grape brandy producing facility located southeast of the City of Napa, on a 29.8 acre parcel, at 1250 Cuttings Wharf Road.
2. RMS Vineyards submitted a Report of Waste Discharge, dated June 5, 1991, for updating and reissuance of Waste Discharge Requirements for the discharges of domestic and distillery wastewaters to on-site treatment and disposal ponds.
3. The RMS Vineyards wastewater discharges are presently governed by Waste Discharge Requirements prescribed by this Board's Order No. 83-19, adopted on June 23, 1983.
4. The RMS Vineyards production facility includes eight 660-gallon Pot Stills used for distillation of brandy from grape wine. The wine is imported to the facility from offsite. No grape crushing or fermentation operations are conducted at this facility. Distillation occurs from September through February, and the facility currently operates with eight employees. The facility has a maximum permitted production capacity of 76,000 gallons per year of grape wine brandy (Napa County Use Permit). At maximum production, distillery wastewater flows would average 8,750 gallons per day (gpd) during the six-month distillation season.
5. RMS Vineyards discharges the following wastes:
 - a. Waste No. 1 consists of distillery wastewater from the batch distillation of wine into brandy. Distillery waste is discharged to one of two cooling trays for cooling, separation of solids (seeds, skins, etc.) and, if necessary, pH adjustment. The cooled, liquid wastewater is collected in a subsurface concrete sump and then pumped to the pond system for treatment and disposal. Separated solids are dried, stockpiled and subsequently incorporated into on-site agricultural lands as a soil amendment. Distillery wastewater flows currently average 4,000 gpd during the six month distillation season.

5. (continued)

- b. **Waste No. 2** consists of domestic wastewater from employees and visitors. Domestic wastewater receives pretreatment in septic tanks, then flows by gravity to the subsurface concrete sump which collects distillery wastewater, and the combined wastewater is pumped to the pond system for treatment and disposal. A three-bedroom caretaker's residence is planned for construction in the future, and the wastewater from this house will also be handled by a septic tank and discharge to the pond system. Total domestic wastewater flow, including the caretaker's residence, is estimated at 970 gpd.
6. The combined wastewater is discharged to a two-pond system. Pond 1 is divided into three sections (1A, 1B, & 1C) by low internal berms, about two to three feet high. Each section is equipped with a mechanical aerator. Pond 2 is divided into two distinct ponds, as described below. All wastewater enters into section 1A of Pond 1. When section 1A becomes full, wastewater overflows the internal berm to section 1B, then similarly to section 1C. If Pond 1 becomes full, wastewater overflows through a pipe to Pond 2A. All wastewater is fully contained within the ponds, with no discharges to surface waters. Disposal is by evaporation from the pond water surface.
7. Pond 2 was modified in 1991 by installing an internal levee to effectively create two new ponds, Pond 2A and Pond 2B. Pond 2A will remain available for wastewater overflow from Pond 1. Pond 2B will be used for storage of irrigation water obtained from non-wastewater sources (rainfall, runoff, vineyard underdrain flows, etc.). If in the future both Pond 1 and Pond 2A become filled with wastewater and additional storage capacity is needed, Pond 2B would be drained of irrigation water and used for storage of overflow from Pond 2A.
8. A water balance analysis indicates that the modified wastewater ponds (Pond 1 and Pond 2A) have adequate capacity to store and dispose by evaporation all wastewater flows associated with the permitted maximum production and domestic wastewater sources (*), and direct precipitation for a ten-year recurrence interval rainfall record. (* 8750 gpd distillery wastewater, 6 months, September through February; and 1,000 gpd domestic wastewater, all year.)
9. The approximate surface areas and storage capacities of the ponds are tabulated below. A map showing the location of the pond system is included as Attachment A of this Order.

<u>POND</u>	<u>SURFACE AREA</u> (acres)	<u>VOLUME</u> (acre-feet) (million gallons)	
1	2.1	8.7	2.84
2A	0.8	2.9	0.95
Subtotal:	<u>2.9</u>	<u>11.6</u>	<u>3.79</u>
2B	1.1	5.7	1.87

10. The Board adopted a revised Water Quality Control Plan for the San Francisco Bay Basin (Basin Plan) on December 17, 1986. The Basin plan identifies beneficial uses for surface water and ground water in the Napa Valley area.
11. The beneficial uses identified in the Basin Plan for the Napa River and contiguous waters include:
 - a. Municipal and Domestic Supply
 - b. Agricultural Supply
 - c. Navigation
 - d. Water Contact Recreation
 - e. Non-contact Water Recreation
 - f. Warm and Cold Fresh Water Habitat
 - g. Wildlife Habitat
 - h. Preservation of Rare and Endangered Species
 - i. Fish Migration and Spawning
12. The beneficial uses identified in the Basin Plan for ground water in the Napa Valley area include:
 - a. Municipal Supply
 - b. Industrial Process Water Supply
 - c. Industrial Service Supply
 - d. Agricultural Supply.
13. The County of Napa determined, on the basis of an Initial Study, that the project will have no significant adverse impacts on the environment, and therefore adopted a Negative Declaration for the project dated September 20, 1982, in accordance with the California Environmental Quality Act (California Public Resources Code Section 21000 et seq).
14. The Board has notified the Discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for the discharge and has provided them with an opportunity for a public hearing and an opportunity to submit written views and recommendations.
15. The Board, in a public hearing, heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED that the Discharger, RMS Vineyards, pursuant to the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder, shall comply with the following:

A. PROHIBITIONS

1. Wastewater discharged to the pond system shall not exceed the following:
 - a. 9,750 gallons per day, as a monthly average, during the 6-month distillation season, September through February.
 - b. 1,000 gallons per day, as a monthly average, during the 6-month non-distillation season, March through August.
2. The collection, treatment, storage and disposal of wastewater shall not create a pollution or nuisance as defined in Sections 13050 (1) and (m), respectively, of the California Water Code.
3. There shall be no bypass or overflow of wastewater to waters of the State from the Discharger's wastewater collection, treatment, storage or disposal facilities.
4. The storage, treatment and disposal of wastewater shall not degrade the quality of any groundwater used for domestic purposes or cause an increase in any quality parameter that would make groundwater unsuitable for irrigation use.
5. The discharge of toxic substances into the Discharger's wastewater ponds which will disturb the pond's normal biological mechanisms is prohibited.
6. The discharge of distillery or domestic wastewater into Pond 2B is prohibited, whenever Pond 2B is being used as an irrigation water supply storage reservoir.

B. DISCHARGE SPECIFICATIONS

1. Water in the wastewater ponds, within one foot of the water surface, shall meet the following quality limits at all times, in any grab sample:
 - a. Dissolved Oxygen 2.0 mg/l, minimum.
 - b. Dissolved Sulfide 0.1 mg/l, maximum.
 - c. pH 6.0, minimum; and 9.0, maximum.
2. To prevent the threat of overflows, a minimum freeboard of two (2) feet shall be maintained in the wastewater ponds at all times. Freeboard is the vertical distance between the water surface and the lowest elevation of the top of the containment structure (pond perimeter levee or outlet structure).

3. The ponds shall be managed to minimize stagnant water areas which could provide breeding conditions for mosquitos or other vectors of public health significance.
4. The public shall be effectively excluded from the wastewater pond area.
5. Conspicuous warning signs shall be posted at adequate intervals around the wastewater ponds informing the public that the water contained therein is wastewater which is not safe for drinking or contact. Signs shall be of sufficient size and proper wording to be clearly read.
6. The wastewater ponds shall be adequately protected from erosion, washout, and flooding from a rainfall event having a predicted frequency of once in 100 years.
7. All equipment, including pumps, piping, valves, storage ponds, etc. which may at any time contain wastewater, and are publicly accessible, shall be adequately and clearly identified with warning signs to inform the public that the liquid contained therein is wastewater which is not safe for drinking or contact.

C. PROVISIONS

1. The Discharger shall comply with all sections of this Order immediately upon adoption.
2. The Discharger shall comply with the Self-Monitoring Program for this Order, as adopted by the Board and as may be amended by the Executive Officer.
3. The Discharger shall maintain in good working order and operate, as efficiently as possible, any facility or control system installed or as modified to achieve compliance with this Order.
4. This Order does not authorize the reclamation or reuse of distillery or domestic wastewater generated by the facility.
5. At such time when the wastewater pond storage capacity becomes utilized to the extent that Pond 1 is full and Pond 2A becomes more than half filled with wastewater, the Discharger shall submit to the Board a plan for bringing Pond 2B into use for wastewater storage, including a time schedule for implementaion of this plan.

6. In the event the Discharger is unable to comply with any of the conditions of this Order due to:

- a. Breakdown of wastewater transport or treatment equipment;
- b. Accidents caused by human error or negligence; or
- c. Other causes such as acts of nature,

the Discharger shall notify the Board by telephone as soon as the Discharger or the Discharger's agents have knowledge of the incident. Written confirmation of this notification shall be submitted within two weeks of the telephone notification. The written notification shall include pertinent information explaining reasons for the non-compliance and shall indicate what steps were taken to correct the problem and the dates thereof, and what steps are being taken to prevent the problem from recurring.

7. The Discharger shall permit the Board or its authorized representatives, in accordance with Section 13267(c) of the California Water Code:


- a. Entry upon premises where a regulated facility or activity is located or conducted, or where records are kept under the conditions of this Order;
- b. Access to and copy of, at reasonable times, any records that must be kept under the conditions of this Order;
- c. Inspection, at reasonable times, of any facility (including monitoring and control equipment), practices, or operations regulated or required under this Order; or
- d. To photograph, sample or monitor, at reasonable times, for the purpose of assuring compliance with this Order.

8. In the event of any change in control or ownership of land or waste discharge facilities presently owned or controlled by the Discharger, the Discharge shall notify the succeeding owner or operator of the existence of this Order by letter, a copy of which shall be forwarded to this Board.

9. The Discharger shall notify the Board, in writing, at least 180 days before making any material change in the characteristics of the wastewater collection, treatment or disposal facilities or practices regulated by this Order, except for during emergency conditions in which case the Board shall be notified as soon as possible thereafter.

10. After notice and opportunity for a hearing, this Order may be terminated or modified for cause including, but not limited to:
- a. Violation of any term or condition contained in this Order;
 - b. Obtaining this Order by misrepresentation, or failure to disclose fully all relevant facts;
 - c. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized reuse; or
 - d. Endangerment to public health or environment that can only be regulated to acceptable levels by Order modification or termination.
11. The Board will review this Order periodically and may revise the requirements as necessary to comply with changing State and Federal laws, regulations, policies, or guidelines; changes in this Regional Board's Basin Plan; or changes in the discharge characteristics.
12. The Waste Discharge Requirements prescribed by this Order supercede those prescribed by this Board's Order No. 83-19. Order No. 83-19 is hereby rescinded.

I, Steven R. Ritchie, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region on October 16, 1991.


STEVEN R. RITCHIE
Executive Officer

Attachments:

- A. Location Map - Wastewater Ponds & Facilities Self-Monitoring Program

[File No. 2139.3095]
[Originator/BDA]
[Reviewer/RJC]

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

SELF-MONITORING PROGRAM

FOR

RMS VINEYARDS, ____

dba CARNEROS ALAMBIC DISTILLERY, ____

CUTTINGS WHARF ROAD, NAPA COUNTY ____

(For Waste Discharge Requirements, Order No. 91 - 148)

CONTENTS:

- I. GENERAL
- II. SAMPLING AND ANALYTICAL METHODS
- III. DEFINITION OF TERMS
- IV. DESCRIPTION OF SAMPLING AND OBSERVATION STATIONS
- V. SCHEDULE OF SAMPLING, MEASUREMENTS AND ANALYSES
- VI. REPORTS TO BE FILED WITH THE REGIONAL BOARD

ATTACHMENTS:

- A. TABLE 1 - SCHEDULE FOR SAMPLING, MEASUREMENTS AND ANALYSES
- B. WASTEWATER STORAGE POND REPORT

I. GENERAL

Reporting responsibilities of waste dischargers are specified in Sections 13225(a), 13267(b), 13268, 13383, and 13387(b) of the California Water Code and this Board's Resolution No. 73-16.

The principle purposes of a monitoring program by a waste discharger, referred to as a self-monitoring program, are:

1. To document compliance with waste discharge requirements established by this Regional Board; and
2. To facilitate self-policing in the prevention and abatement of pollution arising from waste discharges.

II. SAMPLING AND ANALYTICAL METHODS

Sample collection, storage, and analyses shall be performed according to Code of Federal Regulations Title 40, Section 136 (40 CFR S136), the latest edition of Standard Methods for the Examination of Water and Wastewater prepared and published jointly by the American Public Health Association, American Water Works Association and Water Pollution Control Federation, or other methods approved and specified by the Executive Officer of this Regional Board.

Water and waste analyses shall be performed by a laboratory approved for these analyses by the State Department of Health Services (DOHS), or a laboratory waived by the Executive Officer from obtaining a DOHS certification for these analyses.

The director of the laboratory whose name appears on the certification, or his/her laboratory supervisor who is directly responsible for the analytical work performed shall supervise all analytical work including appropriate quality assurance/quality control procedures in his/her laboratory and shall sign all reports of such work submitted to the Regional Board.

All monitoring instruments and equipment shall be properly calibrated and maintained to ensure accuracy of measurements.

III. DEFINITION OF TERMS

- A. A grab sample is an individual sample collected in a short period of time not exceeding 15 minutes. Grab samples represent only conditions existent at the time of sampling.
- B. A flow sample is the accurate measurement of a flow volume over a given period of time using a properly calibrated and maintained flow measuring device. Other means of providing a reasonably accurate quantification of flows may be acceptable, such as calculation from pump useage records for a pump of known capacity, or determination from batch discharges of known volumes.

III. DEFINITION OF TERMS (continued)

C. Standard Observations (Wastewater Pond Observations)

- (a) Freeboard: The vertical distance between the water surface and the lowest elevation of the top of the water containment structure (pond perimeter levee or outlet).
- (b) Evidence of seepage from the pond (Show affected area on sketch, and include estimated volume or flow rate).
- (c) Nuisance odors from ponds: If present, indicate type of odor, cause of odor, and area affected by the odors.
- (d) Evidence of mosquitoes breeding within the pond area due to stagnant water areas.
- (e) Warning signs properly posted to inform public that ponds contain wastewater which is not safe for drinking or contact.

IV. DESCRIPTION OF SAMPLING AND OBSERVATION STATIONS

<u>Station</u>	<u>Description</u>
----------------	--------------------

A. WASTEWATER POND INFLUENT

P-IN	At a point in the wastewater system prior to discharging into the ponds, such that the total wastewater flow into the ponds can be determined.
------	--

B. WASTEWATER POND WATER

P-1A, P-1B, P-1C, & P-2A	At points in each respective pond section which contains wastewater, within one foot of the water surface and about two feet from the water's edge, representative of the pond water.
-----------------------------------	---

C. OBSERVATION STATIONS - WASTEWATER POND LEVEES

L-1, & L-2A	Along the perimeter levees of the each wastewater pond (Pond 1 and Pond 2A).
----------------	--

NOTE: A map of the facility showing locations of all sampling and observation stations described above shall accompany the first monitoring report, and subsequent reports when stations are changed or a violation is reported.

V. SCHEDULE OF SAMPLING, MEASUREMENTS, AND ANALYSES

The Discharger is required to perform observations, sampling, measurements and analyses according to the schedule given in Table 1 and Table 1 Footnotes (Attachment A).

VI. REPORTS TO BE FILED WITH THE REGIONAL BOARD

A. Self-Monitoring Reports

1. Reporting Schedule

Written reports shall be submitted to this Regional Board's office for each calendar quarter, as shown below:

<u>Quarter</u>	<u>Monitoring Period</u>	<u>Report Due Date</u>
1 st	January, February, March	April 15 th
2 nd	April, May, June	July 15 th
3 rd	July, August, September	October 15 th
4 th	October, November, December	January 15 th

2. Report Contents

The Self-Monitoring Reports shall include a letter of transmittal and the results of all required measurements, analyses and observations, as described below:

a. Letter of Transmittal

The letter of transmittal shall include the following:

- o The Discharger's name, address, phone number and contact person(s);
- o The monitoring period being reported, by months and year;
- o The name of the responsible Regional Board staff member;
- o Discussion of any requirement violations found during the monitoring period, including the causes of the violations and corrective actions taken or planned in order to prevent future violations; and
- o Discussion of any special or unusual events pertinent to maintaining compliance with waste discharge requirements, such as failure, repair, replacement or installation of major equipment, or significant operational changes or improvements.

The transmittal letter shall contain a statement by the Discharger, or the Discharger's authorized agent, under penalty of perjury, that to the best of the signer's knowledge the report is true, accurate and complete.

b. Results of Analyses and Observations

- o The results of all required analyses and observations specified in Table 1 (Attachment A), including sample date, time, sample type and station, shall be reported. This information shall be reported by submitting a completed Wastewater Storage Pond Report (Attachment B), or an equivalent tabulation of the required information.

VI. REPORTS TO BE FILED WITH THE REGIONAL BOARD (continued)

B. Report of Permit Violation


In the event the Discharger violates, or threatens to violate the conditions of the waste discharge requirements and prohibitions due to:

- a. Maintenance work, power failure, or breakdown of wastewater transport or treatment equipment;
- b. Accidents caused by human error or negligence; or
- c. Other causes such as acts of nature,

the Discharger shall notify the Regional Board office by telephone as soon as the Discharger or the Discharger's agents have knowledge of the incident. Written confirmation of this notification shall be submitted within two weeks of the date of the incident. The written notification shall include pertinent information explaining reasons for the non-compliance and shall indicate what steps were taken to correct the problem and the dates thereof, and what steps are being taken to prevent the problem from recurring.

I, Steven R. Ritchie, Executive Officer, hereby certify that the foregoing Self-Monitoring Program:

- 1. Has been developed in accordance with the procedure set forth in the Regional Board's Resolution No. 73-16 in order to obtain data and document compliance with waste discharge requirements established in Regional Board Order No. 91 - 148.
- 2. Is effective on the date shown below.
- 3. May be reviewed at any time subsequent to the effective date upon written notice from the Executive Officer or request from the Discharger and revisions will be ordered by the Executive Officer.


STEVEN R. RITCHIE
Executive Officer

Effective Date 10/14/11

ATTACHMENTS:

- A. Table 1 - Schedule for Sampling, Measurements and Analyses
- B. Wastewater Storage Pond Report

[File No. 2139.3095] [Originator/ BDA] [Reviewer/ RJC]

TABLE 1

SCHEDULE FOR SAMPLING, MEASUREMENTS AND ANALYSES

SAMPLING STATIONS -->	Foot- notes	P-IN	P-1A, P-1B, P-1C, & P-2A	L-1 & L-2A
Type of Sample -->		Flow	G	O
Parameter (units)				
Flow Volume (gallons)	(1)	M		
Flow Rate (gpd)	(2)	M		
pH (units)			M	
Dissolved Oxygen (mg/l)			M	
Dissolved Sulfide (mg/l)	(3)		M	
Freeboard				2/M
Standard Observations	(4)			2/M

LEGEND:

Type of Sample

Flow = Flow measurement

G = Grab Sample

O = Observations

Sampling Frequency

M = Monthly

2/M = Twice per month

(at least two weeks apart)

TABLE 1 FOOTNOTES

- (1) Flow Volume: Monthly, report the total flow volume, in gallons, of combined distillery and domestic wastewater discharged into the wastewater pond system.
- (2) Flow Rate: Monthly, determine and report the average daily flow, in gallons per day, of combined distillery and domestic wastewater entering the wastewater pond system.
- (3) Dissolved Sulfides: Analysis required only when Dissolved Oxygen is less than 2.0 mg/l.
- (4) Standard Observations are defined in Part III.C. of this Self-Monitoring Program.

RMS VINEYARDS - SELF-MONITORING PROGRAM (Order No. 91 - 148)

ATTACHMENT B: WASTEWATER STORAGE POND REPORT

REPORT PERIOD - MONTH: _____

WASTEWATER FLOW INTO PONDS

Total Monthly Flow (gallons)			
Average Daily Flow (gallons/day)			

POND WATER

Sampling Date			
Pond Section (1A, 1B, etc)			
pH (units)			
Dissolved Oxygen (mg/l)			
Dissolved Sulfide (mg/l)			

STANDARD OBSERVATIONS (*) (Twice/Month)

Observation Date						
Freeboard (feet; inches)						
Seepage?						
Nuisance Odors?						
Mosquito Breeding?						
Warning Signs Properly Posted?						

- (*) Standard Observations are defined in SMP Part III.C.
 For each inspection record date, freeboard, and 'yes' or 'no' for other ('?') observations, according to observed conditions. If any observations indicate a violation, the following shall be included in the quarterly monitoring report:
- Show location of violation on a sketch of the site.
 - Explain cause and extent of violation.
 - Describe corrective actions taken, and date(s) when compliance was achieved and regular pond use was resumed.

I certify that the information in this report, to the best of my knowledge, is true and correct.

Signature

Date